



Experimental Gulf of Mexico Harmful Algal Bloom Bulletin

16 December 2003

National Ocean Service/NCCOS and CSC

NESDIS/CoastWatch and NDBC

Last bulletin: December 3, 2003

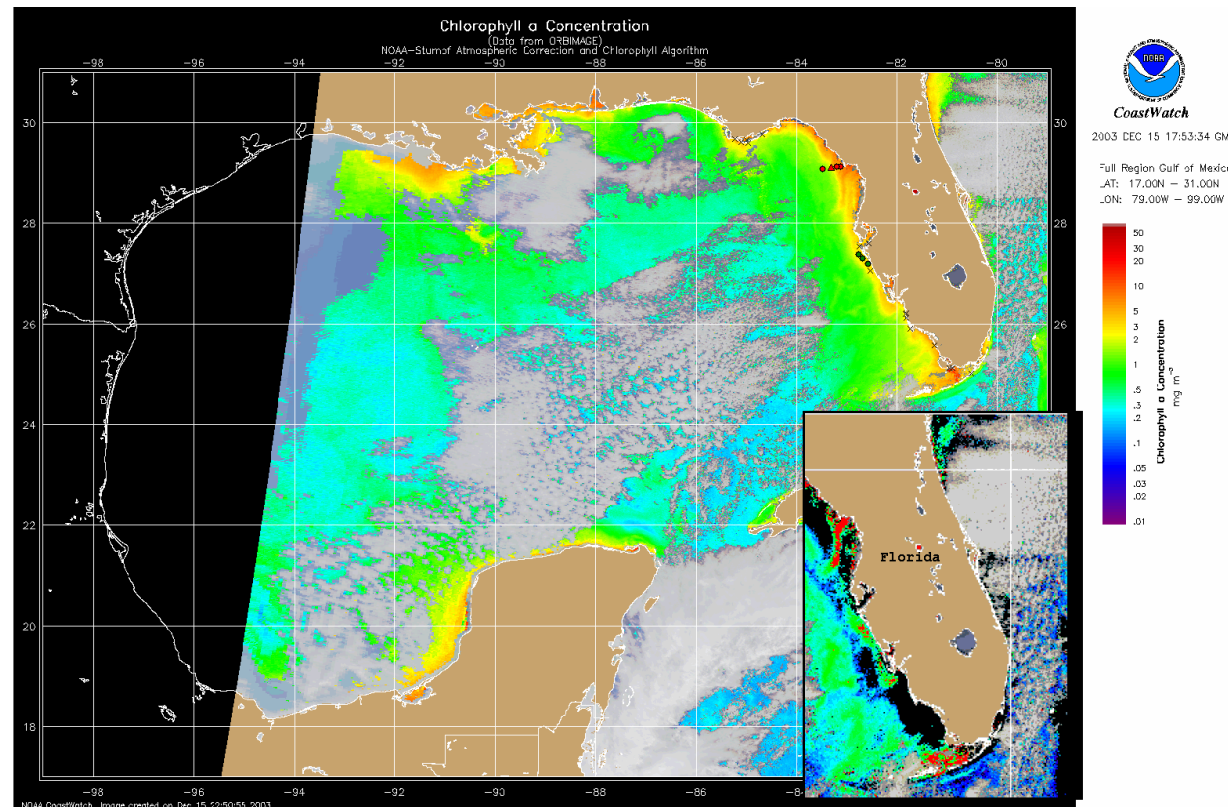
Analysis

NW Florida: Imagery indicates a large chlorophyll anomaly off Cedar Key and stretching offshore and southward to 83d6'W 29d15'N. Chlorophyll is above 6 ug/L in the area. Medium levels of *K. brevis* were observed on December 8. This feature is most likely dominated by diatoms, with some *K. brevis* and therefore should be monitored. Northward transport is not expected in the next few days.

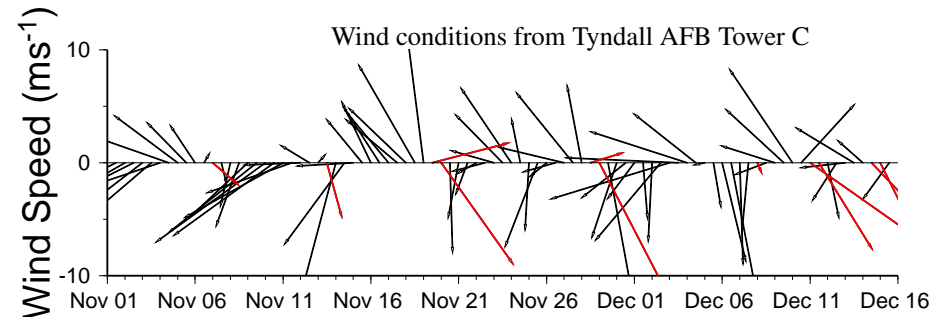
SW Florida: Field samples last week indicated that the elevated chlorophyll off Sarasota was not *K. brevis* and most likely represents a diatom bloom. Imagery indicates a new bloom off Sanibel (82d5'W, 26d14'N). Chlorophyll exceeds 3 ug/L in this area. Although it is unlikely that this is *K. brevis*, this area should be watched.

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-Tomlinson



Chlorophyll concentration (above) and possible HAB areas shown in red (inset). Cell concentration sampling data from December 11, 2003 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present).



Wind speed and direction are averaged over 12 hours from measurements made on NOAA buoys. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast.

NW Florida: Southeasterly winds occurred on December 13-14, followed by a period of northwesterlies. Northwesterly to northerly winds are predicted through Friday.

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SW Florida: Northerly winds yesterday will shift southerly today, followed by a period of north to north-⁻²⁻westerlies through Friday.

Wind conditions from Venice Pier

